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STATE OF CALIFORNIA
WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

TO: United States Forest Service – Havilah Work Center Water System
Water System No. 1502572

Attn: Peter Landucci, Environmental Engineer
United States Forest Service (USFS)
1839 S. Newcomb Street
Porterville, CA 93257

CERTIFIED MAIL

**CITATION FOR VIOLATION OF CALIFORNIA CODE OF REGULATIONS,
TITLE 22, SECTIONS 64426.1(b)(2) and 64426.1(b)(4) – May 2016**

C I T A T I O N N O. 03-19-16C-044

Issued on October 4, 2016

STATEMENT OF FACTS

United States Forest Service (USFS) – Havilah Work Center Water System (hereinafter Water System) is classified as a non-transient non-community water system and serves a population of approximately 28 persons through five service connections. The Water System has one active source of supply, Well 01 (Primary Station Code: 1502572-001), a 20,000-gallon storage tank and distribution system. Well 01 has a submersible pump and occasionally experiences artesian conditions (during the winter rainy season) when the water table is high. No treatment was previously provided to the water produced by the well. Continuous chlorination treatment was installed at Well 01 in July 2016, following multiple total coliform violations between 2014 and 2016. The Water System operates under the authority of

1 Permit No. 03-19-13P-016, issued on August 6, 2013, by the Division of Drinking
2 Water and Environmental Management, California Department of Public Health
3 (CDPH). Effective July 1, 2014, regulatory jurisdiction of the Water System was
4 transferred from CDPH to the State Water Resources Control Board (hereinafter "State
5 Board"), Division of Drinking Water.

6
7 Section 116650 of the California Health and Safety Code authorizes the issuance of a
8 citation to a public water system for violation of the California Safe Drinking Water
9 Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with
10 Section 116270) (hereinafter "California SDWA") or any regulation, standard, permit
11 or order issued or adopted thereunder.

12
13 The State Board, acting by and through its Division of Drinking Water and the Deputy
14 Director for the Division of Drinking Water (hereinafter "Deputy Director"), hereby
15 issues a citation to the USFS – Havilah Work Center Water System (mailing address:
16 1839 S. Newcomb Street, Porterville, CA 93257) for violations of the California Code
17 of Regulations (CCR), Title 22, Section 64426.1, subsections (b)(2) and (b)(4).

- 18
- 19 • The Water System is required to collect one (1) routine bacteriological sample
20 per month.
 - 21 • One (1) routine bacteriological quality sample collected on May 5, 2016, from
22 the distribution system, tested positive for total coliform bacteria and *E.coli*
23 bacteria.
 - 24 • On May 6, 2016, Cranmer Engineering, Inc, the Water System's contract
25 sampler, informed the State Board, via email, of the routine total coliform and
26 *E.coli* positive sample. Upon receiving the notification about the *E.coli*
- 27

1 positive sample, the State Board issued a Boil Water Notice (BWN) to the
2 Water System, on May 6, 2016.

- 3 • One (1) out of three (3) repeat samples collected on May 9, 2016, from the
4 distribution system, (analyzed by the Most Probable Number (MPN) test
5 method), tested positive for total coliform bacteria, and negative for *E.coli*
6 bacteria.
- 7 • One (1) repeat sample (also counted towards the Ground Water Rule's
8 triggered source sampling requirement), collected on May 9, 2016, from Well
9 01, and analyzed by the MPN test method, tested negative for total coliform
10 bacteria.
- 11 • **USFS – Havilah Work Center Water System failed the total coliform and**
12 ***E.coli* maximum contaminant level (MCL) for May 2016 [Sections**
13 **64426.1(b)(2) and 64426.1(b)(4), *Authorities*].**
- 14 • Following flushing of the distribution system, three (3) special bacteriological
15 samples collected on May 18, 2016, from the distribution system, tested
16 negative for total coliform bacteria.
- 17 • One (1) special bacteriological sample collected May 18, 2016, from Well 01,
18 also tested negative for total coliform bacteria and *E.coli* bacteria.
- 19 • On May 27, 2016, Osiel Jaime, Sanitary Engineer with the State Board, visited
20 the Water System to conduct a Level 2 Assessment of the Water System.
21 Findings of the Level 2 Assessment are summarized in a letter dated June 1,
22 2016 (copy provided as **Attachment A**).
- 23 • Five (5) routine bacteriological samples, collected on June 2, 2016, from the
24 distribution system, tested negative for total coliform bacteria. One (1)
25 additional sample collected on the same day from the distribution system, also
26 tested negative for total coliform bacteria.

- 1 • Routine distribution system samples collected on July 7, 2016 and August 4,
- 2 2016, tested negative for total coliform bacteria.
- 3 • Results of all bacteriological samples collected from January 2015 to August
- 4 2016, are summarized in **Attachment B**.
- 5 • It is noted that the Water System previously failed the total coliform MCL for
- 6 July 2014, December 2014, and July 2015. By Citation #03-19-16C-001,
- 7 issued on January 7, 2016, the State Board directed the Water System to install
- 8 mandatory continuous chlorination treatment.
- 9 • On April 26, 2016, Peter Landucci from the Water System submitted a permit
- 10 amendment application to install continuous chlorination at Well 01 of the
- 11 Water System.
- 12 • Due to funding issues, installation of the treatment was delayed. The treatment
- 13 was installed in July 2016. Osiel Jaime from the State Board inspected the
- 14 chlorination treatment facility on August 9, 2016, and interim approval to
- 15 operate the treatment was given by the State Board, by a letter dated September
- 16 23, 2016 (copy provided as **Attachment C**). Until the State Board issues a
- 17 permit amendment, the Water System must comply with the conditions of
- 18 approval of the chlorination treatment.

AUTHORITIES

Section 116577 of the CHSC, states in relevant part:

“(a) Each public water system shall reimburse the State Board for the actual costs incurred by the State Board for any of the following enforcement activities related to that water system:

- (1) Preparing, issuing, and monitoring compliance with, an order or citation.
- (2) Preparing, and issuing public notification

...

(b) The State Board shall submit an invoice for these enforcement costs to the public water system that requires payment prior to September 1 of the fiscal year following the fiscal year in which the costs were incurred. The invoice shall indicate the total hours expended, the reasons for the expenditure, and the hourly cost rate of the State Board. The costs set forth in the invoice shall not exceed the total actual costs to the State Board of the enforcement activities specified in this section.”...

Section 116650 of the CHSC, states in relevant part:

“(a) If the State Board determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the State Board may issue a

1 citation to the public water system. The citation shall be served upon the public water system personally
 2 or by certified mail. Service shall be deemed effective as of the date of personal service
 or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept
 delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

3 (b) Each citation shall be in writing and shall describe the nature of the violation or violations,
 including a reference to the statutory provision, standard, order, citation, permit, or regulation
 alleged to have been violated.

4 (c) A citation may specify a date for elimination or correction of the condition constituting the
 violation.

5 (d) A citation may include the assessment of a penalty as specified in subdivision (e).

6 (e) The State Board may assess a penalty in an amount not to exceed one thousand dollars (\$1,000)
 per day for each day that a violation occurred, and for each day that a violation continues to occur. A
 separate penalty may be assessed for each violation."

7 **Section 116655 of the CHSC, states in relevant part:**

8 (a) Whenever the State Board determines that any person has violated or is violating this chapter, or any
 permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order
 doing any of the following:

9 (1) Directing compliance forthwith.

10 (2) Directing compliance in accordance with a time schedule set by the State Board.

11 (3) Directing that appropriate preventive action be taken in the case of a threatened violation.

12 (b) An order issued pursuant to this section may include, but shall not be limited to, any or all of
 the following requirements:

13 (1) That the existing plant, works, or system be repaired, altered, or added to.

14 (2) That purification or treatment works be installed.

15 (3) That the source of the water supply be changed.

16 (4) That no additional service connection be made to the system.

17 (5) That the water supply, the plant, or the system be monitored.

18 (6) That a report on the condition and operation of the plant, works, system, or water supply be
 submitted to the State Board.

19 **California Code of Regulations (hereinafter, CCR), Title 22, Section 64423, Table 64423-A**
establishes the minimum routine sampling requirements, and states in relevant part:

<i>Monthly Population Served</i>	<i>Service Connections</i>	<i>Minimum Number of Samples</i>
25 to 1000	15 to 400	1 per month
1,001 to 2,500	401 to 890	2 per month
2,501 to 3,300	891 to 1,180	3 per month
3,301 to 4,100	1,181 to 1,460	4 per month
4,101 to 4,900	1,461 to 1,750	5 per month
4,901 to 5,800	1,751 to 2,100	6 per month
5,801 to 6,700	2,101 to 2,400	7 per month
6,701 to 7,600	2,401 to 2,700	2 per week
7,601 to 12,900	2,701 to 4,600	3 per week
12,901 to 17,200	4,601 to 6,100	4 per week
17,201 to 21,500	6,101 to 7,700	5 per week
21,501 to 25,000	7,701 to 8,900	6 per week
25,001 to 33,000	8,901 to 11,800	8 per week
33,001 to 41,000	11,801 to 14,600	10 per week
41,001 to 50,000	14,601 to 17,900	12 per week
50,001 to 59,000	17,901 to 21,100	15 per week

CCR, Title 22, Section 64426.1 establishes the total coliform maximum contaminant level and states in relevant part:

"(a) Results of all samples collected in a calendar month pursuant to Sections 64423, 64424, and 64425 that are not invalidated by the State Board or the laboratory shall be included in determining compliance with the total coliform MCL. Special purpose samples such as those listed in 64421(b) and samples collected by the water supplier during special investigations shall not be used to determine compliance with the total coliform MCL.

(b) A public water system is in violation of the total coliform MCL when any of the following occurs:

(1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or

(2) For a public water system with collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or

(3) Any repeat sample is fecal coliform-positive or *E. coli*-positive; or

(4) Any repeat sample following a fecal coliform-positive or *E. coli*-positive routine sample is total coliform-positive.

(c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the State Board by the end of the business day on which this is determined, unless the determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraphs (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraphs (b)(3) or (4), pursuant to section 64463.1."

DETERMINATIONS

Based upon the above Statement of Facts and Authorities, the State Board determines that the Water System has violated the following:

1. CCR, Title 22, Section 64426.1(b)(2); Specifically, the Water System violated the total coliform MCL for May 2016 when more than one sample during the month, tested positive for total coliform bacteria.
2. CCR, Title 22, Section 64426.1(b)(4); Specifically, during the month of May 2016, one routine distribution system sample tested positive for *E.coli* bacteria.

The above violations are classified as non-continuing violations.

DIRECTIVES

USFS – Havilah Work Center Water System is hereby directed to take the following actions:

1. Cease and desist from failing to comply with Section 116555(a) of the California Health and Safety Code (CHSC) and Sections 64426.1(b)(2) and 64426.1(b)(4) of Title 22, California Code of Regulations.
2. The Water System shall comply with the conditions of approval of the continuous chlorination treatment, summarized in a letter dated September 23, 2016 (copy provided as **Attachment C**).
3. The Water System shall reimburse the State Board, in accordance with an invoice that shall be provided to the Water System, the costs for enforcement activities, and such reimbursement shall be made prior to September 1 (or by a different date if specified by the State Board) of the fiscal year following the fiscal year in which such costs are incurred as described in CHSC Sections 116577(a)(1-2) and 116577(b).

FURTHER ENFORCEMENT ACTIONS

Section 116270, Chapter 4, Part 12, Division 104 of the CHSC authorizes the State Board to: issue additional citations with assessment of penalties if a public water system continues to fail or correct a violation identified in a citation; take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with orders of the State Board; and petition the superior court to take various enforcement measures against a public water system that has failed to comply with orders of the State Board. The State Board does not waive any further enforcement action by issuance of this citation.

PARTIES BOUND

This citation shall apply to and be binding upon USFS – Havilah Work Center Water System, its officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The directives of this citation are severable, and USFS – Havilah Work Center Water System shall comply with each and every provision thereof, notwithstanding the effectiveness of any other provision.

CIVIL PENALTIES

Section 116650, subsections (d) and (e) of the CHSC allow for the assessment of a civil penalty for failure to comply with the requirements of the Safe Drinking Water Act. Failure to comply with any provision of this Citation may result in the State Board imposing an administrative penalty in an amount not to exceed \$1,000 (one thousand dollars) per day as of the date of violation of any provision of this Citation.

Oct. 4, 2016

Date

Jaswinder S. Dhaliwal

Jaswinder S. Dhaliwal, P.E.

Senior Sanitary Engineer

Drinking Water Field Operations Branch

Certified Mail No. 7015 1520 0000 4432 2240

ATTACHMENTS

Attachment A: Level 2 Assessment Summary – Letter Dated June 1, 2016
Attachment B: Summary of Bacteriological Samples Collected from January 2015 – August 2016
Attachment C: Continuous Chlorination Approval Letter Dated Sep. 23, 2016

CC: Kern County Dept. of Public Health, Env. Health Services Division (w/o attachments)
Cranmer Engineering, Inc., Contract Sampler (via email)

JSD/dc

Attachment A



EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

June 1, 2016

Peter Landucci, Environmental Engineer
United States Forest Service (USFS)
1839 S. Newcomb Street
Porterville, CA 93527

SUBJECT: LEVEL TWO ASSESMENT OF THE USFS – HAVILAH WORK CENTER WATER SYSTEM (SYSTEM NO. 1502572)

Dear Mr. Landucci:

On May 27, 2016, Osiel Jaime, Sanitary Engineer with the State Water Resources Control Board (hereinafter State Board), Division of Drinking Water, conducted a Level 2 Assessment of the USFS – Havilah Work Center Water System (hereinafter Water System) with your assistance. The Level 2 Assessment was required under the federal revised Total Coliform Rule (rTCR), following an *E.coli* positive routine distribution system sample collected on May 5, 2016. Below you will find our major recommendations.

1. A fine mesh screen should be provided around the pressure relief valve on Well 01.
2. A fine mesh screen should be provided at the air gap between Well 01's casing vent and the pipe that diverts the artesian free flow water away from the well site.
3. On the storage tank's air vent, a fine mesh screen should be installed over the coarse screen.
4. Hose bib atmospheric vacuum breakers should be installed on all exterior hose bibs.
5. The fire hoses should be removed from the fire hose connections when not in use.
6. By Citation No. 03-19-16C-001, issued on January 7, 2016, the State Board directed the Water System to install mandatory continuous chlorination treatment due to previous total coliform MCL violations. The Water System has submitted a permit amendment application to the State Board for installing chlorination treatment but has not yet installed the treatment. The chlorination treatment needs to be installed before June 30, 2016. Please notify the State Board after installation of the treatment.

The cause of bacteriological contamination in May 2016 is undetermined. However, by implementing the recommendations stated above, the Water System would have a lower chance


FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

4925 Commerce Drive, Suite 120, Bakersfield, CA 93309 | www.waterboards.ca.gov

June 1, 2016

of bacteriological contamination. The items identified above should be addressed within 30 days and written notification to the State Board should be submitted after taking corrective actions. If you have any questions concerning the issues discussed in this letter, please contact Osiel Jaime at (661) 335-7347.

Sincerely,

A handwritten signature in black ink, appearing to read "Jaswinder S. Dhaliwal". The signature is fluid and cursive, with the first name "Jaswinder" and last name "Dhaliwal" clearly distinguishable.

Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

cc: Kern County Environmental Health Services Department
Cranmer Engineering., Sampler (via e-mail)

Attachment B

US Forest Service - Havilah Work Center

1502572

Distribution System Freq: 1/M

Sample Date	Time	Location	T Coli	E Coli	F Coli	Type	CI2	Violation	Comment
1/7/2015	9:30	5ROU	A	A		Routine			
1/7/2015	9:40	1ROU	A	A		Routine			
1/7/2015	9:44	2ROU	A	A		Routine			
1/7/2015	9:48	3ROU	A	A		Routine			
1/7/2015	9:51	4ROU	A	A		Routine			
2/4/2015	10:09	2ROU	A	A		Routine			
3/4/2015	10:05	1ROU	A	A		Routine			
4/9/2015	11:40	Kitchen Sink	A	A		Routine			
6/3/2015	18:45	Havilah WC	A	A		Routine			
7/8/2015	9:50	Havilah WC	P	A		Routine			
7/13/2015	14:10	Havilah Main Offic	200.5	<1.0		Repeat			
7/13/2015	14:20	Havilah WC Barra	>200.5	<1.0		Repeat			Citation # 03_19_16C_001 issued on 1/7/2016.
8/13/2015	8:50	3ROU	A	A		Routine			
8/17/2015	13:00	1ROU	A	A		Other			
8/17/2015	13:00	Engine Office	A	A		Routine			
8/17/2015	13:09	2ROU	A	A		Other			
8/17/2015	13:15	3ROU	A	A		Other			
8/17/2015	13:19	4ROU	A	A		Other			
8/17/2015	13:22	5ROU	A	A		Other			
8/17/2015	14:00	STORAGE TANK	A	A		Other			
8/26/2015	10:29	5ROU	A	A		Routine			
8/26/2015	10:36	1ROU	A	A		Routine			
8/26/2015	10:40	4ROU	A	A		Routine			
8/26/2015	10:50	2ROU	A	A		Routine			
9/16/2015	16:45	3ROU	A	A		Routine			
10/8/2015	10:30	Hose bib Northsid	A	A		Routine			
11/5/2015	10:30	1 ROU	A	A		Routine			
12/3/2015	17:15	Re HB on North Si	0.0	0.0		Routine			
1/7/2016	18:22	R1 HB on North Si	A	A		Routine			
2/4/2016	8:00	R1 HB on North Si	A	A		Routine			
3/3/2016	8:00	R1 HB on North Si	A	A		Routine			
4/7/2016	7:25	R1 HB on North Si	A	A		Routine			
5/5/2016	7:05	R1 HB on North Si	2.0	2.0		Routine		MCL	Citation #03_19_16C_044 issued on 10/4/2016.
5/9/2016	12:20	R1 HB on North Si	A	A		Repeat			

<i>Sample Date</i>	<i>Time</i>	<i>Location</i>	<i>T Coli</i>	<i>E Coli</i>	<i>F Coli</i>	<i>Type</i>	<i>Cl2</i>	<i>Violation</i>	<i>Comment</i>
5/9/2016	12:22	Warehouse HB	A	A		Repeat			
5/9/2016	12:30	New Barracks HB	2.0	A		Repeat			
5/18/2016	11:55	New Barracks	A	A		Repeat			
5/18/2016	12:10	Warehouse 24	A	A		Repeat			
5/18/2016	12:20	Engine Office HB	A	A		Repeat			
6/2/2016	6:12	(R5) New Barrack	A	A		Routine			
6/2/2016	6:15	R1 HB on North Si	A	A		Routine			
6/2/2016	6:18	(R2) Residential T	A	A		Routine			
6/2/2016	6:27	(R4) Warehouse	A	A		Routine			
6/2/2016	6:30	R1 HB on North Si	A	A		Routine			
6/2/2016	16:21	(R3) Barracks Trai	A	A		Routine			
7/7/2016	10:55	R1 HB on North Si	A	A		Routine	0.873		
8/4/2016	7:05	R1 HB on North Si	A	A		Routine	0.45		

US Forest Service - Havilah Work Center

1502572

Source Monitoring Freq: 1/M

<i>Sample Date</i>	<i>Time</i>	<i>Source</i>	<i>T Coli</i>	<i>E Coli</i>	<i>F Coli</i>	<i>Violation</i>	<i>Comment</i>
7/13/2015	14:00	Havilah WC Wellhead	>200.5	<1.0			GWR sample
8/17/2015	13:28	WELL #1	A	A			
5/9/2016	12:15	WELL #1	A	A			
5/18/2016	12:15	WELL #1	A	A			

Attachment C



EDMUND G. BROWN JR.
GOVERNOR



MATTHEW RODRIGUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

September 23, 2016
System No. 1502572

Peter Landucci, Environmental Manager
United States Forest Service (USFS)
1839 S. Newcomb Street
Porterville, CA 93257

**RE: INTERIM APPROVAL TO OPERATE THE CHLORINATION FACILITY FOR USFS –
HAVILAH WORK CENTER WATER SYSTEM**

Dear Mr. Landucci:

The State Water Resources Control Board, Division of Drinking Water (State Board) has received the permit amendment application dated April 26, 2016, to permit the use of the continuous chlorination treatment facility at Well 01 for the USFS – Havilah Work Center Water System (Water System). On August 9, 2016, Osiel Jaime from the State Board conducted an inspection of the chlorination facility. Pending issuance of the water supply permit, the Water System may operate the chlorination treatment facility at Well 01, subject to the following conditions:

1. Continuous chlorination (PS Code: 1502572-002) at Well 01 is the only approved treatment. USFS shall not provide any other water treatment without first submitting a permit amendment application to the State Board and receiving written approval from the State Board.
2. The continuous chlorination facility at Well 01 shall be operated under the supervision of a certified distribution or treatment operator. Per the current operations plan dated August 24, 2016, the chlorination facility will be inspected at least twice per month. Records of the treatment shall be maintained and made available to the State Board, when requested.
3. All water produced by Well 01 shall receive continuous chlorination treatment. A detectable chlorine residual shall be maintained in the distribution system. Within 24 hours of treatment failure, the Water System shall take corrective actions and make the treatment functional again.
4. The Water System shall monitor its distribution system for chlorine residual when routine, repeat, or special bacteriological samples are collected. The chlorine residual values shall be reported to the State Board by the tenth day of the following month, along with the results of the bacteriological samples collected during the month.
5. Raw water from Well 01 shall be monitored monthly for 12 months and results shall be reported in MPN/100 mL. If all samples are negative for total coliform bacteria, future

FELICIA MARCUS, CHAIR | THOMAS HOWARD, EXECUTIVE DIRECTOR

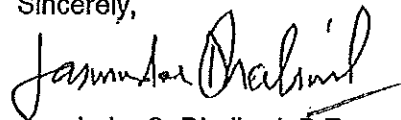
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bacteriological monitoring of the raw water may be reduced to quarterly after obtaining approval from the State Board.

6. The Water System shall monitoring the distribution system for disinfection byproducts (DBPs) which are total trihalomehtanes (TTHMs) and haloacetic acids five (HAA5). The TTHM and HAA5 MCLs are 80 ug/L, and 60 ug/L, respectively. The approved Stage 2 DBP location is S2S1 -- Residential Trailer and the PS Code is 1502572-901. The Water System is currently required to conduct this monitoring annually during the summer. However, if the results from the first set of samples are less than 25 percent of the MCLs, you may request the State Board to reduce the monitoring frequency to every three years.

Please note that the State Board reserves the right to amend the above conditions in the forthcoming permit amendment document. If you have any questions regarding this matter, please contact Osiel Jaime at (661) 335-7347.

Sincerely,



Jaswinder S. Dhaliwal, P.E.
Senior Sanitary Engineer
SOUTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

CC: Kern County Department of Public Health, Environmental Health Services Division
Cranmer Engineering, Sampler (via e-mail)